

**QSOL™ 300 CLEANING SOLVENT**  
**MATERIAL SAFETY DATA SHEET FOR USA AND CANADA**



**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** QSOL™ 300 CLEANING SOLVENT

**SYNONYMS:** Not available.

**PRODUCT CODE:** 6541

**PRODUCT USE:** Cleaning and degreasing metal parts and cleaning printing equipment. VOC (Volatile Organic Compounds) content is less than 25 grams/liter. Also see SECTION 12: Volatile Organic Compounds. If these products are used in combination with other products, refer to the Material Safety Data Sheet for those products. For use ONLY in Safety-Kleen supplied equipment. Product must never be heated in an oxygen containing environment.

This number is for emergency use only. If you desire non-emergency product information, please call a phone number listed below.

**24-HOUR EMERGENCY PHONE NUMBER  
MEDICAL AND TRANSPORTATION (SPILL):**

**1-800-468-1760**

**SUPPLIER:** Safety-Kleen Systems, Inc.  
5400 Legacy Drive  
Cluster II, Building 3  
Pflano, Texas 75024  
USA  
**1-800-669-5740**  
**www.Safety-Kleen.com**

**TECHNICAL INFORMATION:** 1-800-669-5740 Press 1 then 1, then Extension 7500

**MSDS FORM NUMBER:** 82836

**ISSUE:** March 30, 2007

**ORIGINAL ISSUE:** November 29, 2001

**SUPERSEDES:** January 6, 2004

**PREPARED BY:** Product MSDS Coordinator

**APPROVED BY:** MSDS Task Force

**QSOL™ 300 CLEANING SOLVENT**  
**MATERIAL SAFETY DATA SHEET FOR USA AND CANADA**

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**SECTION 2: HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

**APPEARANCE**

Clear and colorless liquid, odorless.

**WARNING!**

**PHYSICAL HAZARDS**

Combustible liquid and vapor.

**HEALTH HAZARDS**

May be harmful if inhaled.

May irritate the respiratory tract (nose, throat, and lungs), eyes, and skin.

May be harmful if swallowed.

Contains material which may cause central nervous system effects.

**ENVIRONMENTAL HAZARDS**

No information available for the product.

**POTENTIAL HEALTH EFFECTS**

**INHALATION (BREATHING):** High concentrations of vapor may be harmful if inhaled. High concentrations of vapor or mist may irritate the respiratory tract (nose, throat, and lungs). High concentrations of vapor or mist may cause nausea, vomiting, headaches, dizziness, loss of coordination, numbness, and other central nervous system effects.

**EYES:** May cause irritation.

**SKIN:** May cause irritation.

**INGESTION (SWALLOWING):** May be harmful if swallowed. May cause throat irritation, nausea, vomiting, and diarrhea. Breathing product into the lungs during ingestion or vomiting may cause lung injury and possible death.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Individuals with pre-existing respiratory tract (nose, throat, and lungs), central nervous system, liver, eye, and/or skin disorders may have increased susceptibility to the effects of exposure.

**QSOL™ 300 CLEANING SOLVENT**  
**MATERIAL SAFETY DATA SHEET FOR USA AND CANADA**

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**CHRONIC:** Prolonged or repeated inhalation may cause toxic effects as noted under **INHALATION (BREATHING)**. Prolonged or repeated inhalation or swallowing by rodents showed increased liver weights when exposed to this product. When exposure stopped, liver weights returned to normal. Microscopic evaluation showed no liver damage. Prolonged or repeated eye contact may cause inflammation of the membrane lining the eyelids and covering the eyeball (conjunctivitis). Prolonged or repeated skin contact may cause drying, cracking, redness, itching, and/or swelling (dermatitis).

**CANCER INFORMATION:** No known carcinogenicity. For more information, see **SECTION 11: CARCINOGENICITY**.

**POTENTIAL ENVIRONMENTAL EFFECTS**  
Not available. Also see **SECTION 12: ECOLOGICAL INFORMATION**.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

CAS #	Component	Synonyms	Percent
541-02-6	Decamethylcyclopentasiloxane	N.Av.	97.5-100
69430-24-6	Cyclosilanes, dimethyl-	N.Av.	0.1-1, 1-3

**SECTION 4: FIRST AID MEASURES**

**INHALATION (BREATHING):** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Oxygen should only be administered by qualified personnel. Someone should stay with victim. Get medical attention if breathing difficulty persists.

**EYES:** If irritation or redness from exposure to vapor develops, move away from exposure into fresh air. Upon contact, immediately flush eyes with plenty of lukewarm water, holding eyelids apart, for 15 minutes. Get medical attention.

**SKIN:** For skin contact, wash immediately with soap and water for at least 15 minutes while removing contaminated clothing. Wash contaminated clothing before reuse. If irritation persists, get medical attention.

**INGESTION (SWALLOWING):** Do NOT induce vomiting. Immediately get medical attention. Call 1-800-468-1760 for additional information. If spontaneous vomiting occurs, keep head below hips to avoid breathing the product into the lungs. Never give anything by mouth to an unconscious person.

**QSOL™ 300 CLEANING SOLVENT**  
**MATERIAL SAFETY DATA SHEET FOR USA AND CANADA**

**NOTE TO PHYSICIANS:** Treat symptomatically and supportively. Treatment may vary with condition of victim and specifics of incident. Call 1-800-468-1760 for additional information.

**SECTION 5: FIRE FIGHTING MEASURES**

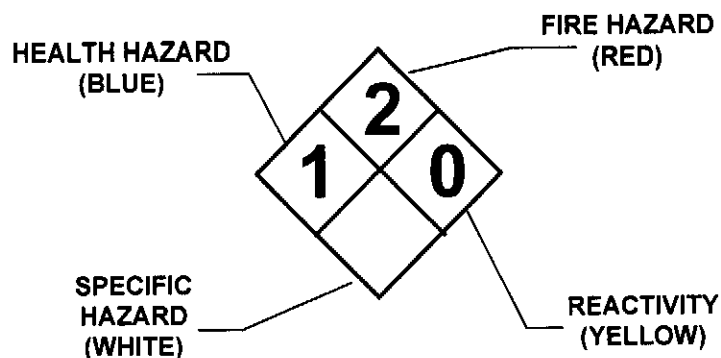
**HAZARDOUS COMBUSTION PRODUCTS:** Decomposition and combustion materials may be toxic. Burning may produce formaldehyde, silicon dioxide, carbon monoxide and unidentified organic compounds.

**CONDITIONS OF FLAMMABILITY:** Heat, sparks, or flame.

**PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:** A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

**EXTINGUISHING MEDIA:** Carbon dioxide, regular foam, dry chemical, water spray, or water fog.

**NFPA 704 HAZARD IDENTIFICATION:** This information is intended solely for the use by individuals trained in this system.



**FIRE FIGHTING INSTRUCTIONS:** Keep storage containers cool with water spray.

**FIRE AND EXPLOSION HAZARDS:** Vapor explosion hazard indoors, outdoors, or in sewers. Vapors may travel to ignition source and flashback. Vapors will spread along the ground and collect in low or confined areas. Run-off to sewer may create a fire hazard. Heated containers may rupture or be thrown into the air. "Empty" containers may retain residue and can be dangerous. Product is not sensitive to mechanical impact. Product may be sensitive to static discharge, which could result in fire or explosion.

**QSOL™ 300 CLEANING SOLVENT**  
**MATERIAL SAFETY DATA SHEET FOR USA AND CANADA**

---

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Wear protective equipment and provide engineering controls as specified in **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. A vapor suppressing foam may be used to reduce vapors. Contain spill away from surface water and sewers. Contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean, sparkproof tool into a sealable container for disposal.

Additionally, for large spills: Water spray may reduce vapor, but may not prevent ignition in closed spaces. Dike far ahead of liquid spill for collection and later disposal.

**SECTION 7: HANDLING AND STORAGE**

**HANDLING:** Keep away from heat, sparks, or flame. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean, sparkproof tools and explosion-proof equipment. When transferring product, metal containers, including trucks and tank cars, should be grounded and bonded. Do not breathe vapor or mist. Use in a well ventilated area. Avoid contact with eyes, skin, clothing, and shoes. Do not smoke while using this product.

**SHIPPING AND STORING:** Keep container tightly closed when not in use and during transport. Store containers below 85°F (30°C). Store containers in a cool, dry place. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Keep containers away from heat, flame, sparks, static electricity, or other sources of ignition. Empty product containers may retain product residue and can be dangerous.

See **SECTION 14: TRANSPORTATION INFORMATION** for Packing Group information.

**QSOL™ 300 CLEANING SOLVENT**  
**MATERIAL SAFETY DATA SHEET FOR USA AND CANADA**

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**EXPOSURE GUIDELINES:**

**Component Exposure Limits**

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

**ENGINEERING CONTROLS:** Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below applicable exposure limits. Where explosive mixtures may be present, equipment safe for such locations should be used. Vapor concentrations should be monitored and controlled in accordance with 29 CFR 1910.1048.

**PERSONAL PROTECTIVE EQUIPMENT**

**RESPIRATORY PROTECTION:** Use NIOSH-certified P- or R- series particulate filter and organic vapor cartridges when concentration of vapor or mist exceeds applicable exposure limits. Protection provided by air purifying respirators is limited. Do not use N-rated respirators. Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4.

**EYE PROTECTION:** Wearing chemical goggles is recommended. Contact lens use is not recommended without eye protection.

**SKIN PROTECTION:** Where skin contact is likely, wear chemical impervious protective gloves; use of natural rubber (latex) or equivalent gloves is not recommended.

To avoid prolonged or repeated contact with product where spills and splashes are likely, wear appropriate chemical-resistant faceshield, boots, apron, whole body suits or other protective clothing.

**PERSONAL HYGIENE:** Use good personal hygiene. Wash thoroughly with soap and water after handling product and before eating, drinking, or using tobacco products. Clean affected clothing, shoes, and protective equipment before reuse. Discard affected clothing, shoes, and/or protective equipment if they cannot be thoroughly cleaned. Discard leather articles, such as shoes, saturated with this product.

**OTHER PROTECTIVE EQUIPMENT:** Where spills and splashes are likely, facilities storing or using this product should be equipped with an emergency eyewash and shower, both equipped with clean water, in the immediate work area.

**QSOL™ 300 CLEANING SOLVENT**  
**MATERIAL SAFETY DATA SHEET FOR USA AND CANADA**

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>PHYSICAL STATE, APPEARANCE, AND ODOR:</b>	Clear and colorless liquid, odorless.
<b>ODOR THRESHOLD:</b>	Not available.
<b>MOLECULAR WEIGHT:</b>	370.8
<b>SPECIFIC GRAVITY:</b>	0.95 (water = 1)
<b>DENSITY:</b>	7.9 LB/US gal (950 g/l)
<b>VAPOR DENSITY:</b>	Not available
<b>VAPOR PRESSURE:</b>	1.3 mm Hg @ 68°F (°C) (approximately) 3.1 mm Hg @ 100°F (°C) (approximately)
<b>VOC VAPOR PRESSURE:</b>	<1 mm Hg @ 68°F (°C) (approximately)
<b>BOILING POINT:</b>	410°F (210°C)
<b>FREEZING/MELTING POINT:</b>	-36°F (-38°C) (approximately)
<b>pH:</b>	Not applicable
<b>EVAPORATION RATE:</b>	less than 1 (butyl acetate = 1)
<b>SOLUBILITY IN WATER:</b>	Insoluble
<b>FLASH POINT:</b>	170°F (77°C) Closed Cup (approximate)
<b>FLAMMABLE LIMITS IN AIR:</b>	<b>LOWER:</b> Not available <b>UPPER:</b> Not available
<b>AUTOIGNITION TEMPERATURE:</b>	Not available
<b>% VOLATILE:</b>	0 WT%; 0 LB/US gal; 0 g/l As per 40 CFR Part 51.100(s). This product has been certified as a Clean Air Solvent, having passed a chemical analysis performed by California's South Coast Air Quality Management District (SCAQMD) Laboratory. It complies with the VOC (Volatile Organic Compounds) requirement of Rule 1171 - Solvent Cleaning Operations.

**QSOL™ 300 CLEANING SOLVENT**  
**MATERIAL SAFETY DATA SHEET FOR USA AND CANADA**

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**SECTION 10: STABILITY AND REACTIVITY**

- STABILITY:** Stable under normal temperatures and pressures.
- CONDITIONS TO AVOID:** Avoid heat, sparks, or flame. Avoid contact with incompatible materials.
- INCOMPATIBILITY:** Avoid oxidizing agents.
- REACTIVITY:** Polymerization is not known to occur under normal temperature and pressures. Not reactive with water.
- HAZARDOUS DECOMPOSITION PRODUCTS:** None under normal temperatures and pressures. See also **SECTION 5: HAZARDOUS COMBUSTION PRODUCTS.**

**SECTION 11: TOXICOLOGICAL INFORMATION**

**TOXICITY DATA:**

**Component Analysis - LD50/LC50**

**Decamethylcyclopentasiloxane (541-02-6)**

Oral LD50 Rat: >64 mL/kg;

Dermal LD50 Rabbit: >16 mL/kg

**Cyclosilanes, dimethyl- (69430-24-6)**

Oral LD50 Rat: >16 mL/kg;

Dermal LD50 Rabbit: >16 mL/kg

- ACUTE EFFECTS:** May irritate the respiratory tract (nose, throat, and lungs), eyes, and skin. High concentrations of vapor may be harmful if inhaled. High concentrations of vapor or mist may irritate the respiratory tract (nose, throat, and lungs). This product contains a siloxane compound which may generate formaldehyde vapors when exposed to temperatures exceeding 302°F in the presence of air. Formaldehyde is a known cancer hazard, causes irritation and sensitization of the respiratory system, causes throat irritation and is acutely toxic.
- REPEATED DOSE EFFECTS:** Based on best current information, there is no known human sensitization associated with this product.

**QSOL™ 300 CLEANING SOLVENT**  
**MATERIAL SAFETY DATA SHEET FOR USA AND CANADA**

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Based on best current information, there is no known mutagenicity associated with this product.

Based on best current information, there is no known reproductive toxicity associated with this product.

Based on best current information, there is no known teratogenicity associated with this product.

**CARCINOGENICITY:**

Based on best current information, there is no known carcinogenicity as categorized by ACGIH A1 or A2 substances; as categorized by IARC Group 1, Group 2A, or Group 2B agents; or as listed by NTP as either known carcinogens or substances for which there is limited evidence of carcinogenicity in humans or sufficient evidence of carcinogenicity in experimental animals.

This product contains a siloxane compound which may generate formaldehyde vapors when exposed to temperatures exceeding 302°F in the presence of air. Formaldehyde is a known cancer hazard.

**TARGET ORGAN EFFECTS:**

Prolonged or repeated inhalation or swallowing by rodents showed increased liver weights when exposed to this product. When exposure stopped, liver weights returned to normal. Microscopic evaluation showed no liver damage. Prolonged or repeated eye contact may cause inflammation of the membrane lining the eyelids and covering the eyeball (conjunctivitis). Prolonged or repeated skin contact may cause drying, cracking, redness, itching, and/or swelling (dermatitis).

<b>SECTION 12: ECOLOGICAL INFORMATION</b>
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**ECOTOXICITY:**

Not available.  
**Component Analysis - Ecotoxicity - Aquatic Toxicity**  
Not available.

**PERSISTENCE/DEGRADABILITY:**

This product is not expected to persist in the environment.

**BIOACCUMULATION/ACCUMULATION:**

Product is not expected to bioaccumulate.

**QSOL™ 300 CLEANING SOLVENT**  
**MATERIAL SAFETY DATA SHEET FOR USA AND CANADA**

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**MOBILITY IN ENVIRONMENTAL MEDIA:** Product is expected to have high mobility in water and soil.

**OTHER ADVERSE EFFECTS:** Not available. Also see **SECTION 12: ECOLOGICAL INFORMATION.**

**OCTANOL/WATER PARTITION COEFFICIENT:** Not available

**VOLATILE ORGANIC COMPOUNDS:** 0 WT%; 0 LB/US gal; 0 g/l  
As per 40 CFR Part 51.100(s).  
**VOC Vapor Pressure:** <1 mm Hg @ 68°F  
This product has been certified as a Clean Air Solvent, having passed a chemical analysis performed by California's South Coast Air Quality Management District (SCAQMD) Laboratory. It complies with the VOC (Volatile Organic Compounds) requirement of Rule 1171 - Solvent Cleaning Operations.  
This product complies with the VOC requirements of the BAAQMD Regulation 8, Rule 16.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**DISPOSAL:** Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Safety-Kleen regarding proper recycling or disposal.

**USEPA WASTE CODE(S):** This product, if discarded, is not expected to be a characteristic or listed hazardous waste. Processing, use, or contamination by the user may change the waste code(s) applicable to the disposal of this product.

**SECTION 14: TRANSPORT INFORMATION**

**DOT:** **Shipping Name:** Combustible liquid, n.o.s. (Contains: Decamethylcyclopentasiloxane )  
**UN/NA #:** NA1993 **Hazard Class:** Combustible liquid **Packing Group:** III  
**Labels(s):** None

**TDG:** **Shipping Name:** Not regulated.

**EMERGENCY RESPONSE GUIDE NUMBER:** 128  
Reference *North American Emergency Response Guidebook*

**QSOL™ 300 CLEANING SOLVENT**  
**MATERIAL SAFETY DATA SHEET FOR USA AND CANADA**

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**SECTION 15: REGULATORY INFORMATION**

**USA REGULATIONS**

**SARA SECTIONS 302 AND 304:** Based on the ingredients listed in **SECTION 2**, this product does not contain any "extremely hazardous substances" listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B.

**SARA SECTIONS 311 AND 312:** This product poses the following health hazards as defined in 40 CFR Part 370 and is subject to the requirements of sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA):  
Immediate (Acute) Health Hazard  
Delayed (Chronic) Health Hazard  
Fire Hazard

**SARA SECTION 313:** This product does not contain "toxic" chemicals subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

**CERCLA:** Based on the ingredients listed in **SECTION 2**, this product does not contain any "hazardous substances" listed pursuant to the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4.

**TSCA:** All the components of this product are listed on, or are automatically included as "naturally occurring chemical substances" on, or are exempted from the requirement to be listed on, the TSCA Inventory.

**CALIFORNIA:** This product does not contain detectable amounts of any chemical known to the State of California to cause cancer.

This product does not contain detectable amounts of any chemical known to the State of California to cause birth defects or other reproductive harm.

# QSOL™ 300 CLEANING SOLVENT

## MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

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### CANADIAN REGULATIONS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all information required by the CPR.

**CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA):** All the components of this product are listed on, or are automatically included as "substance occurring in nature" on, or are exempted from the requirements to be listed on, the Canadian Domestic Substances List (DSL).

### SECTION 16. OTHER INFORMATION

**REVISION INFORMATION:** Regulatory update, updated to ANSI Z400.1-2004 format. This MSDS has been revised in the following sections: Section 1 (Dates), Section 2 (Composition updated), Section 3 (switched to Emergency Overview, addition of information), Section 4 (Phone Numbers), Section 5 (Fire Fields), Section 8 (Exposure Limits added), Section 11 (Toxicology fields updated), Section 12 (Ecotoxicity Information, fields updated), Section 16 (Revision Information).

**LABEL/OTHER INFORMATION:** This product has been certified as a Clean Air Solvent, having passed a chemical analysis performed by California's South Coast Air Quality Management District (SCAQMD) Laboratory. It complies with the VOC (Volatile Organic Compounds) requirement of Rule 1171 - Solvent Cleaning Operations.

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User assumes all risks incident to the use of this (these) product(s). To the best of our knowledge, the information contained herein is accurate. However, Safety-Kleen assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either express or implied, or merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which information refers. The data contained on this sheet apply to the product(s) as supplied to the user.

